

The Solar System ▪ *Guided Reading and Study*

The Sun

This section describes the sun's interior and its atmosphere. It also describes features on and above the sun's surface.

Use Target Reading Skills

As you read about the sun, complete the outline to show the relationships among the headings.

The Sun

I. The Sun's Interior

II. _____

B. The Chromosphere

III. _____

C. Solar Flares

The Sun's Interior

1. The sun's energy comes from a process called

_____.

2. What occurs in nuclear fusion?

3. Where does nuclear fusion occur in the sun?

4. Order the layers of the sun's interior from inner layer to outer layer.

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The Sun's Atmosphere

5. Order the layers of the sun's atmosphere from inner layer to outer layer.

6. Which layer do you see when you look at a typical image of the sun?

7. How can you identify the chromosphere during a total solar eclipse?

8. Why can you see a corona during a total solar eclipse?

9. The corona sends out a stream of electrically charged particles called the _____.

Features on the Sun

10. Name three features on or above the sun's surface.

a. _____ b. _____

c. _____

Match the feature on the sun with its description.

Feature	Description
_____ 11. sunspots	a. Areas of gas on the sun's surface that are cooler than the gases around them
_____ 12. prominences	b. Large eruptions of gas out into space
_____ 13. solar flares	c. Reddish loops of gas that link different parts of sunspot regions

14. When solar flares increase solar wind from the corona, what do they cause in Earth's upper atmosphere? _____